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			BITAR, NANCY	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/701.695 MCAMISH ET AL. Office Action Summary Examiner Art Unit NANCY BITAR 2624 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 04 March 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-20 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 05 November 2003 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

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DETAILED ACTION

Examiner Notes

1. Examiner cites particular columns and line numbers in the references as applied to the claims below for the convenience of the applicant. Although the specified citations are representative of the teachings in the art and are applied to the specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested that, in preparing responses, the applicant fully consider the references in entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed by the examiner

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1-20 are rejected under 35 U.S.C. § 103(a) as being unpatentable over
 Topolkaraev et al. (US 5,968,643), and in view of Power et al (US 6,614,532) and further in view of Ling et al (Confocal scanning laser microscopy of polymer coating, 26 May 1997).

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As to claim 1, Topolkaraev et al. teaches a method of analyzing pore structure in a microporous polyolefin film (a porous film 20, figure 1), comprising applying a detectable material to one surface of a microporous polyolefin film wherein the detectable material is capable of traveling through pores in the film (the film can desirably include a polymer material having a morphology composed of distinctively interconnecting pores, column 3, line 42-45); and determine the pore structure of the microporous polyolefin film by focusing a confocal microscope at a depth within the film (scanning electron microscopy and image analysis, column 17, lines 20) to obtain a first image of the detectable material within pores of the film at the depth within the film (the film microscopy, such as by using a JSM 6400(JEOL, Peabody, Mass.) scanning electron microscope with both secondary and backscatter electron detectors, column 17, lines 40-44). While Topolkaraev et al. teaches meets a number of the limitations of the claimed invention, as pointed out more fully above, Topolkaraev et al fails to specifically teach "focusing a confocal microscope at a depth within the film". Specifically, Ling et al, teaches the confocal scanning laser microscopy of polymer coating where a CSLM images can be obtained with corresponding depths without the interference of the above coating layer, page 153, figure2) Because the confocal scanning laser microscopy helps in providing a better stereoscopic expression of the concerned surfaces. It would have been obvious to one of ordinary skill in the art to the confocal microscope in Topolkaraev et al, in order to provide simultaneous qualitative and quantitative information on coating surfaces as well as measurements over a wide range of surface areas. Power et al teaches the conventional light microscopy that has been used for the depth analysis of polymeric materials wherein the method analyses composition or structures of depth dependent properties

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of thin films, coating or thin where a depth mapping of the composition and/or physical structure is made thus determining the pore structure of the microporous polyolefin film using a confocal microscope (see figure 3-4). It would have been obvious to one skilled in the art to determine the pore structure of Power et al in the porous film 20 of Topolkaraev in order to obtain image of a radiation interaction as a function of layer depth region of interest thus exhibiting a reduced perturbation by the index of refraction. Therefore, the claimed invention would have been obvious to one of ordinary skill in the art at the time of the invention by applicant.

As to claim 2, Power et al. teaches the method according to claim 1, further comprising focusing the confocal microscope at least one additional depth within the film to obtain at least one additional image of the detectable material within pores of the film at the at least one additional depth (figure 1-2)

As to claim 3-4, Power et al. teaches the method according to claim 2, further comprising focusing the confocal microscope at the one surface to obtain a first surface image (The detected image will have a variation in contrast along the depth axis of the test material, and also along an axis orthogonal to both to the depth axis and the imaging axis, column 1, lines 59, column 2, lines 2).

As to claim 5, Topolkaraev et al. teaches the method according to claim 4, wherein the additional detectable material comprises detectable particles of a size, which prevents their travel through pores in the film (A major factor which can affect the access of liquid into the microporous film structure can include the specific permeability of the film material, as determined by the pore geometry (pore size and size distribution) and by the connectivity and tortuosity of the three-dimensional pore structure, column 4, lines 14-19).

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As to claim 6, Power et al. teaches the method according to claim 3, further comprising focusing the confocal microscope at the other surface of the film to obtain a second surface image of the detectable material at the other surface (image transfer surface, note that the exposure of the test material to each of the forward and reverse beam, an irradiation volume is established in each exposure by means of irradiation towards the respective forward (4A) and reverse (4R) surfaces of the test material (4), figures 1-2).

As to claim 7, Power et al. teaches the method according to claim 2, further comprising focusing the confocal microscope at the other surface of the film to obtain a surface image of the detectable material at the other surface (imaging system (Elements 5A and 5) is used to form an image of the irradiation volume established from each of the directions and a camera (7) is used to record each of the images, see column 7, lines 20-36).

As to claim 8, Power et al. teaches the method according to claim 1, further comprising focusing the confocal microscope at a plurality of additional depths within the film to obtain a plurality of additional images (single images from the beginning, the middle, and the end of the entire image set, figures 1(a)-(c), page 152) of the detectable material within pores of the film at the plurality of additional depths (maximum intensity images and their corresponding depth, page 153).

As to claim 9, Ling et al. teaches the method according to claim 8, further comprising aligning the first image and the plurality of images to create a three dimensional image of pore structure through the film (figure 3, 3D reconstructed images, page 153)

As to claim 10, Power et al. teaches the method according to claim 1, wherein the detectable material is a fluorescent dye (LPM include fluorescence, column 12, lines 24-40).

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As to claim 11, Topolkaraev et al. teaches the method according to claim 1, wherein the polyolefin comprises polyethylene (the source material may include homopolymers of polyethylene or polypropylene, column 4, lines 39-41)

As to claim 12, Topolkaraev et al. teaches the method according to claim 11, wherein the polyethylene comprises a filler (the source material for the film 20 can also include a further supplemental material, and the supplemental material may include a filer material, column 5, lines 43-45).

As to claim 13, Topolkaraev et al. teaches the method according to claim 12, wherein the filler comprises calcium carbonate (suitable filler material can include supermite, an ultafine ground CaCO3, column 6, lines 63-68).

The limitations of claims 14-16 has been addresses above except for the following: each confocal microscope image comprises a two dimensional image of pore structure at a depth within the film and is represented by a detectable dye. Topolkaraev et al. teaches that limitation in column 14, lines 41-62, see also Powell et al, figure 3)

As to claim 17, Topolkaraev et al. teaches the three dimensional image according to claim 15, wherein the polyolefin comprises polyethylene (the source material may include homopolymers of polyethylene or polypropylene, column 4, lines 39-41).

As to claim 18, Topolkaraev et al. teaches the three-dimensional image according to claim 17, wherein the polyethylene comprises filler (the source material for the film 20 can also include a further supplemental material, and the supplemental material may include a filer material, column 5, lines 43-45).

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As to claim 19, Topolkaraev et al teaches the three-dimensional image according to claim 18, wherein the filler comprises calcium carbonate (suitable filler material can include supermite, an ultafine ground CaCO3, column 6, lines 63-68).

Claim 20 differ from claim 14 only in that claim 20 is a system claim whereas; claim 14 is a method claim. Thus, claim 20 is analyzed as previously discussed with respect to claim 14 above.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to NANCY BITAR whose telephone number is (571)270-1041. The examiner can normally be reached on Mon-Fri (7:30a.m. to 5:00pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bhavesh Mehta can be reached on 571-272-7453. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Andrew W. Johns/ Primary Examiner, Art Unit 2624

Nancy Bitar

3/24/2008